

PATENT ABSTRACTS OF JAPAN

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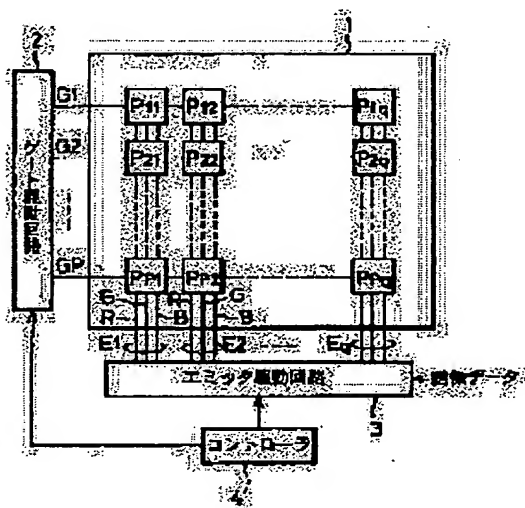
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(54) ELECTRIC FIELD EMISSION DISPLAY DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an electric field emission display device relatively easily realizing a multi-level display.

SOLUTION: This device is provided with an FED device main body 1 provided with a display substrate arranged with a pixel P_{ij} having an electric field emission type emitter in matrix, and formed with gate wiring commonly driving the pixels in the row direction and emitter wiring commonly driving the electric field emission emitters in the column direction, and a counter substrate arranged oppositely on this display substrate and formed with an anode electrode and a fluorescent body film, a gate drive circuit 2 successively supplying a gate voltage pulse to the gate wiring and an emitter drive circuit 3 supplying an emitter voltage pulse deciding an emitter emission current value of each pixel together with the gate voltage pulse synchronized with the gate voltage pulse to the emitter wiring. At this time, the emitter drive circuit 3 generates the emitter voltage pulse combining pulse width control corresponding to M-level with pulse amplitude control answering to N-level and containing $M \times N$ -level of information.



LEGAL STATUS

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